

COX'S GAS-FLOW COMPUTER.

This Computer solves Professor Pole's well-known formula.

$$\text{Discharge in cub. ft. per hour} = c \sqrt{\frac{d^5 \times (p_1 - p_2)}{l \times w}}$$

Where d = diameter of pipe in inches,

p_1 = initial pressure in inches of water,

p_2 = terminal pressure in inches of water,

l = length of pipe in yards,

w = specific gravity of the gas when air = 1.

c = a constant varying from 1000 to 1350.

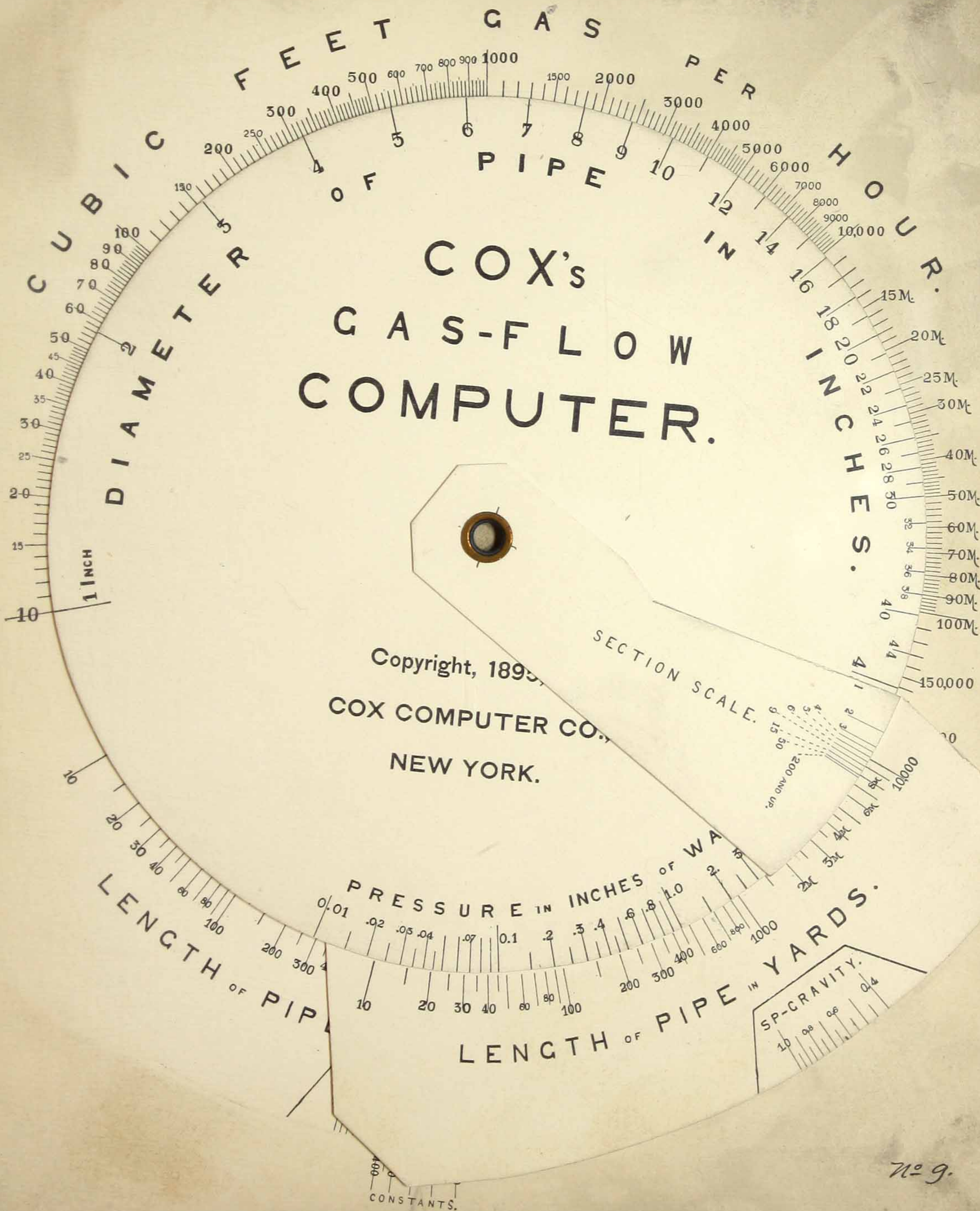
TO FIND THE DISCHARGE OF GAS.

- (1). Set the specific gravity of the gas opposite the selected constant;
- (2). Bring the difference of pressure ($p_1 - p_2$) opposite the given length of pipe;
- (3). Opposite any diameter of pipe will be at once found the discharge in cubic feet per hour; and
- (4). Opposite any desired discharge will also be found the required diameter of the pipe.

TO FIND THE DIFFERENCE OF PRESSURE.

- (1). Set the specific gravity of the gas opposite the selected constant;
- (2). Bring the diameter of pipe opposite the desired discharge in cubic feet per hour;
- (3). Opposite the given length of pipe find the required difference of pressure between the ends of the pipe.

COX'S
GAS-FLOW
COMPUTER.



No 9.

10 90-3820 TCF